

BAY RESTORATION FUND RANKING DOCUMENTATION 2014

| COST OF PURCHASE, INSTALLATION AND 5 YEAR OPERATION MAINTENANCE | | | |
|---|--------------------------|-------------|-------------|
| VENDOR IN ASCENDING ORDER | | | VERIFIED BY |
| 1 | BioMicrobics RetroFast** | \$10,092.75 | Vendor |
| 2 | Singular TNT | \$10,895.00 | Vendor |
| 3 | Singular Green | \$10,926.25 | Vendor |
| 4 | Hoot BNR | \$12,677.75 | Vendor |
| 5 | AdvanTex AX20 | \$13,235.00 | Vendor |
| 6 | SeptiTech M400D | \$13,272.25 | Vendor |
| 7 | Advantex AX20RT | \$15,054.75 | Vendor |
| | Hydro Action AN series | \$10,400.00 | Vendor |
| | AquaKlear AK6S245 | \$10,600.00 | Vendor |
| | BioMicrobics MicroFAST | \$11,090.00 | Vendor |
| | Clear Rex Bubbler | \$11,200.00 | Vendor |
| | Bionest SOLO OT-60 | \$13,219.00 | Vendor |
| | Nitrex*** | \$22,000.00 | Vendor |

All prices are Estimates and subject to change, contact Manufacturer.
The BRF Program no longer funds the Non-Field Verified systems for installation.
Price does not include electrical costs per year

** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.; Price includes use of new tank. For use of existing tank, manufacturer must certify tank suitable and watertight.
*** Nitrex unit Add-on anoxic filter. Price includes the use of Advantex AX20 unit.

| | VENDOR IN ASCENDING ORDER | MEAN % REDUCTION TN (Using 60mg/L Influent) | MEAN EFFLUENT CONCENTRATION | VERIFIED BY |
|--|---------------------------|--|--------------------------------|-------------|
| 1 | AdvanTex AX20RT | 76% | 14 mg/L | MDE |
| 2 | Advantex AX20 | 71% | 17 mg/L | MDE |
| 3 | SeptiTech M400D | 67% | 20 mg/L | MDE |
| 4 | Hoot BNR | 64% | 21 mg/L | MDE |
| 5 | RetroFast** | 57% | 25 mg/L | MDE |
| 6 | Singular TNT | 55% | 27 mg/L | MDE |
| 7 | Singular Green | 55% | 27 mg/L | MDE |
| | AquaKlear AK6S245 | Deliberative Data | Deliberative Data | |
| | BioMicrobics MicroFAST | Deliberative Data | Deliberative Data | |
| | Bionest | Deliberative Data | Deliberative Data | |
| | Clear Rex Bubbler | Deliberative Data | Deliberative Data | |
| | Nitrex*** | Deliberative Data | Deliberative Data | |
| | Hydro Action AN series | Deliberative Data | Deliberative Data | |
| Non Field Verified systems are listed alphabetically. | | | | |
| As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for Non Field Verified Systems as Deliberative Data. | | | | |
| ** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. | | | | |
| *** Nitrex unit Add-on anoxic filter. Price includes the use of Advantex AX20 unit. | | | | |

| PRICE PER POUND OF N REDUCED | | | |
|------------------------------|------------------------|-------------------|-------------------|
| VENDOR IN ASCENDING ORDER | | | VERIFIED BY |
| 1 | Advantex AX20RT | \$83.63 | MDE |
| 2 | Advantex AX20 | \$78.98 | MDE |
| 3 | HOOT BNR | \$87.36 | MDE |
| 4 | RetroFast** | \$84.94 | MDE |
| 5 | Singular TNT | \$90.24 | MDE |
| 6 | Singular Green | \$90.47 | MDE |
| 7 | SeptiTech M400D | \$94.27 | MDE |
| | AquaKlear AK6S245 | Deliberative Data | Deliberative Data |
| | BioMicrobics MicroFAST | Deliberative Data | Deliberative Data |
| | Bionest | Deliberative Data | Deliberative Data |
| | Clear Rex Bubbler | Deliberative Data | Deliberative Data |
| | Nitrex*** | Deliberative Data | Deliberative Data |
| | Hydro Action AN series | Deliberative Data | Deliberative Data |

Price per pound of N reduced equals (((Price of technology plus (increased electrical costs multiplied by Ten))divided by Ten) divided by (24.32 lbs of N per year multiplied by percent reduction of N by system))

As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for Non Field Verified Systems as Deliberative Data.
** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

| VENDOR IN ASCENDING ORDER | | OPERATION AND MAINTENANCE PER YEAR AFTER THE 5 YEAR CONTRACT | MINIMUM NUMBER OF SITE VISITS PER CONTRACT | VERIFIED BY |
|---|------------------------|--|--|-------------|
| 1 | Hoot BNR | \$175.00 | 1 | Vendor |
| 2 | AdvanTex AX20 | \$175.00 | 1 | Vendor |
| 3 | Advantex RT | \$175.00 | 1 | Vendor |
| 4 | SeptiTech M400D | \$175.00 | 1 | Vendor |
| 5 | RetroFast | \$200.00 | 1 | Vendor |
| 6 | Singular TNT | \$300.00 | 2 | Vendor |
| 7 | Singular Green | \$300.00 | 2 | Vendor |
| | AquaKlear AK6S245 | \$100.00 | 1 | Vendor |
| | Bionest | \$150.00 | 1 | Vendor |
| | Hydro Action AN series | \$175.00 | 1 | Vendor |
| | Nitrex | \$200.00 | 1 | Vendor |
| | BioMicrobics MicroFAST | \$200.00 | 1 | Vendor |
| | Clear Rex Bubbler | \$225.00 | 1 | Vendor |
| Analysis based on price to homeowner per year | | | | |
| All prices are Estimates and based on basic service level. Prices are subject to change, contact manufacturer. | | | | |
| Additional Charges may apply with certain manufacturers. It is the responsibility of the homeowner to contact the manufacturer for precise details of contract. | | | | |

| VENDOR IN ASCENDING ORDER | | 1 YEAR ELECTRICAL CONSUMPTION (represented as kWh/ year) | INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.11 PER kWh | VERIFIED BY | |
|---|-----------------------------|--|---|-------------------|--|
| 1 | Advantex AX20 | 335.8 kWh/ year | \$40.30 | OSET NTP | RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process. |
| 2 | Advantex AX20RT | 335.8 kWh/year | \$40.30 | OSET NTP | BLUE Font = Technologies that have not completed Maryland's Bay Restoration Fund Field Verification process. |
| 3 | Hoot BNR | 765.77 kWh/ year | \$91.89 | NSF International | |
| 4 | Singular TNT | 979.66 kWh/ year | \$117.56 | NAT Testing Lab | |
| 5 | Singular Green | 979.66 kWh/year | \$117.56 | NAT Testing Lab | Please contact the county Environmental Health Division for specific process of submitting an application |
| 6 | RetroFast** | 1401.6 kWh/year | \$168.19 | Pump Manufacturer | For a list of county contact information, 410-537-3599 |
| 7 | SeptiTech M400D | 1741.05 kWh/year | \$208.93 | Vendor | |
| | AquaKlear AK6S245 | 297.8 kWh/year | \$35.74 | Pump Manufacturer | Please contact the Maryland Department of the Environment for specific questions regarding becoming a Best Available Technology in Maryland. |
| | Clear Rex Bubbler | 385 kWh/year | \$43.80 | Pump Manufacturer | |
| | Nitrex*** | 394.2 kWh/year | \$47.30 | Vendor/ OSET NTP | For MDE contact information, 410-537-3599 |
| | Hydro Action AN series **** | 1564.55 kWh/year | \$187.75 | Pump Manufacturer | |
| | BioMicrobics MicroFAST | 1664.4 kWh/year | \$199.73 | Pump Manufacturer | The Information on this page is subject to change. Before selecting a technology for use on the property in question, please contact each vendor to verify the information is current and accurate. MDE is only a facilitator in presenting this information in accordance with HB347. MDE strongly advises that the applicant contact the vendor directly for more information. |
| | Bionest SOLO OT-60 | 1752 kWh/year | \$210.24 | Pump Manufacturer | |
| \$0.12 is an assumed average kWh rate for Maryland 2015. | | | | | |
| ** RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. | | | | | |
| *** Nitrex unit electrical consumption is based on the electrical use of the Nitrex system coupled with an Advantex AX20. | | | | | |
| HydroAction utilizes a mixer pump during start up. Pump use is discontinued after start up. Usage data will vary after Start-up period. | | | | | |
| For a list of vendor contact information, 410-537-3599 | | | | | |